

Tegaseelan Paju
Attorney Docket No. MNI-068CP2
Customer No. 000959
MPI 1993 - 105PIR.CP2

DECLARATION, PETITION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

NOVEL CARK PROTEIN AND NUCLEIC ACID MOLECULES AND USES THEREFOR

the specification of which

- executed by me of even date herewith and about to be filed;
- was filed on September 5, 2001 as U.S. Serial No. 09/947,199 ;
and
- was amended on _____
(if applicable)

I do not know and do not believe that the subject matter of this application was known or used by others in the United States or patented or described in a printed publication in any country before my invention thereof, or patented or described in a printed publication in any country or in public use or on sale in the United States more than one year prior to the date of this application, or first patented or caused to be patented or made the subject of an inventor's certificate by me or my legal representatives or assigns in a country foreign to the United States prior to the date of this application on an application filed more than twelve months (six months if this application is for a design) before the filing of this application; and I acknowledge my duty to disclose information of which I am aware which is material to the examination of this application, that no application for patent or inventor's certificate on the subject matter of this application has been filed by me or my representatives or assigns in any country foreign to the United States, except those identified below, and that I have reviewed and understand the contents of the specification, including the claims as amended by any amendment referred to herein.

I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

CLAIM OF BENEFIT OF EARLIER FOREIGN APPLICATION(S)

I hereby claim priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below, and have also identified below any foreign application(s) for patent or inventor's certificate filed by me on the same subject matter having a filing date before that of the application(s) from which priority is claimed.

no such applications have been filed.
 such applications have been filed as follows

**EARLIEST FOREIGN APPLICATION(S), IF ANY, FILED WITHIN 12 MONTHS
(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION**

Country	Application Number	Date of Filing (month, day, year)	Priority Claimed Under 35 USC 119
			<input type="checkbox"/> Yes No <input type="checkbox"/>
			<input type="checkbox"/> Yes No <input type="checkbox"/>
			<input type="checkbox"/> Yes No <input type="checkbox"/>
			<input type="checkbox"/> Yes No <input type="checkbox"/>
			<input type="checkbox"/> Yes No <input type="checkbox"/>

**ALL FOREIGN APPLICATION(S), IF ANY FILED MORE THAN 12 MONTHS
(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION**

CLAIM FOR BENEFIT OF U.S. PROVISIONAL APPLICATION(S)

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below.

60/111,938
(Application Serial No.)

December 11, 1998
(Filing Date)

(Application Serial No.)

(Filing Date)

CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S)

I hereby claim the benefit under Title 35, United States Code, §120 of any earlier United States application(s) or PCT international application(s) designating the United States listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the earlier application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date(s) of the earlier application(s) and the national or PCT international filing date of this application. As to subject matter of this application which is common to my earlier application(s), if any, described below, I do not know and do not believe that the same was known or used by others in the United States or patented or described in a printed publication in any country before my invention thereof, or patented or described in a printed publication in any country or in public use or on sale in the United States more than one year prior to the date(s) of said earlier application(s), or first patented or caused to be patented or made the subject of an inventor's certificate by me or my legal representatives or assigns in a country foreign to the United States prior to the date(s) of said earlier application(s) on an application filed more than twelve months (six months if this application is for a design) before the filing of said earlier application(s); and I acknowledge that no application for patent or inventor's certificate on said subject matter has been filed by me or my representatives or assigns in any country foreign to the United States except those identified herein.

<u>09/291,839</u> (Application Serial No.)	<u>April 14, 1999</u> (Filing Date)	<u>Pending</u> (Status) (patented, pending, aband.)
<u>09/458,457</u> (Application Serial No.)	<u>December 10, 1999</u> (Filing Date)	<u>Pending</u> (Status) (patented, pending, aband.)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

James E. Cockfield	Reg. No. 19,162	Megan E. Williams	Reg. No. 43,270
Thomas V. Smurzynski	Reg. No. 24,798	Jeremiah Lynch	Reg. No. 17,425
Ralph A. Loren	Reg. No. 29,325	David J. Rikkers	Reg. No. 43,882
Giulio A. DeConti, Jr.	Reg. No. 31,503	Maria C. Laccotripe	Limited Recognition
Ann Lampert Hammitt	Reg. No. 34,858	Debra J. Milasincic	Under 37 C.F.R. § 10.9(b)
Elizabeth A. Hanley	Reg. No. 33,505	David R. Burns	Reg. No. 46,931
Amy E. Mandragouras	Reg. No. 36,207	Sean D. Detweiler	Reg. No. 46,590
Anthony A. Laurentano	Reg. No. 38,220	Peter S. Stecher	Reg. No. 42,482
Kevin J. Canning	Reg. No. 35,470	Cynthia L. Kanik	Reg. No. 47,259
Jane E. Remillard	Reg. No. 38,872	Theodore R. West	Reg. No. 37,320
Peter C. Lauro	Reg. No. 32,360	Shayne Y. Huff	Reg. No. 47,202
DeAnn F. Smith	Reg. No. 36,683		Reg. No. 44,784
Jeanne M. DiGiorgio	Reg. No. 41,710		

all of: **Lahive & Cockfield, LLP**, 28 State Street, Boston, MA 02109
United States of America

and to:

Jean M. Silveri	Reg. No. 39,030	Theodore R. Allen	Reg. No. 41,578
Scott A. Brown	Reg. No. 32,724	Jill E. Uhl	Reg. No. 43,213
Susan M. Perkins	Reg. No. 36,405	Kerri Pollard Schray	Reg. No. 47,066

all of: **Millennium Pharmaceuticals, Inc.**, 75 Sidney Street, Cambridge, MA 02139
United States of America

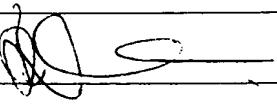
Send correspondence to **Amy E. Mandragouras, Esq.** at Customer No. 000959 whose address is:

Lahive & Cockfield, LLP
28 State Street
Boston, MA 02109

Direct telephone calls to **Amy E. Mandragouras, Esq.** at (617) 227-7400.

Wherefore I petition that letters patent be granted to me for the invention or discovery described and claimed in the attached specification and claims, and hereby subscribe my name to said specification and claims and to the foregoing declaration, power of attorney, and this petition.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor Jeyaseelan Raju	
Inventor's signature 	Date <input checked="" type="checkbox"/> 11/19/01
Residence 82 Main Street, Acton, MA 01720	
Citizenship India	
Post Office Address (if different)	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Jeysaseelan Raju
Application No.: 09/947,199
Filed: September 5, 2001
For: CARK PROTEIN AND NUCLEIC ACID MOLECULES AND USES
THEREFOR

Commissioner for Patents
Washington, D.C. 20231

REVOCATION OF PRIOR POWERS OF ATTORNEY
AND APPOINTMENT OF NEW POWER OF ATTORNEY

Dear Sir:

MILLENNIUM PHARMACEUTICALS, INC., the Assignee of the entire right, title and interest in the above-identified application by virtue of the Assignment document filed with the United States Patent and Trademark Office on February 1, 2002, at Reel 012577, Frame 0038 hereby revokes all Powers of Attorney with respect to that application heretofore granted and appoints the below listed attorneys with full power of substitution and revocation to prosecute this application and to transact all business in the Patent Office connected therewith.

CERTIFICATION UNDER 37 C.F.R. SECTIONS 1.8(a) and 1.10*

I hereby certify that, on the date shown below, this correspondence is being:

MAILING

deposited with the United States Postal Service in an envelope addressed to the Commissioner for Patents.
Washington, D.C. 20231.

37 C.F.R. SECTION 1.8(a)

37 C.F.R. SECTION 1.10*

with sufficient postage as first class mail.

as "Express Mail Post Office to Address"
Mailing Label No.

TRANSMISSION

transmitted by facsimile to the Patent and Trademark Office.

Simonne Corriveau
Signature

Simonne Corriveau
(type or print name of person certifying)

Date: April 9, 2003

*WARNING: Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. section 1.10(b). "Since the filing of correspondence under section 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

Scott A. Brown, Reg. No. 32,724; Ian R. Silverman, Reg. No. 37,443; Jean M. Silveri, Reg. No. 39,030; Allan N. Kutzenco, Reg. No. 38,945, Janice M. Klunder, Reg. No. 41,121; Theodore R. Allen, Reg. No. 41,578; Kerri Pollard Schray, Reg. No. 47,066, Tracy M. Sioussat, Reg. No. 50,609; and Paul J. Paglierani, Reg. No. 52,498

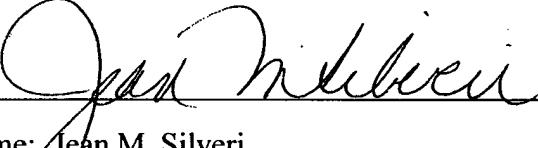
all of Millennium Pharmaceuticals, Inc., 75 Sidney Street, Cambridge, Massachusetts 02139, United States of America.

Please direct all future correspondence to:

Intellectual Property Group
MILLENNIUM PHARMACEUTICALS, INC.
75 Sidney Street
Cambridge, MA 02139

and direct all telephone calls to Jean M. Silveri at 617-679-7336.

MILLENNIUM PHARMACEUTICALS, INC.

By: 

Typed Name: Jean M. Silveri

Title: Associate General Counsel

Dated: April 9, 2003



UNITED STATES
PATENT AND
TRADEMARK OFFICE

APRIL 11, 2002

PTAS

Chief Information Officer
Washington, DC 20231
www.uspto.gov

LAHIVE & COCKFIELD LLP
AMY E. MANDRAGOURAS, ESQ.
28 STATE STREET
BOSTON, MA 02109



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UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/01/2002

REEL/FRAME: 012577/0038

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNEE:

RAJU, JEYASEELAN

DOC DATE: 11/19/2001

ASSIGNOR:

MILLENNIUM PHARMACEUTICALS, INC.
75 SIDNEY STREET
CAMBRIDGE, MASSACHUSETTS 02139

SERIAL NUMBER: 09947199

FILING DATE: 09/05/2001

PATENT NUMBER:

ISSUE DATE:

VIOLET MCCOY, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

02-20-2002

FORM PTO-1595

(Rev. 6-93)
OMB No. 0651-0011 (exp. 4/94)

HEET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

▼ ▼ ▼

▼ ▼ ▼

101987977

MNI-068CP2

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Jeyaseelan Raju

21-02

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance

Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date(s): November 19, 2001

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

09/947,199

B. Patent No.(s)

FEB - 1 2002

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Amy E. Mandragouras, Esq.Internal Address: Lahive & Cockfield, LLPStreet Address: 28 State StreetCity: Boston State: MA ZIP: 02109

6. Total number of applications and patents involved:

17. Total fee (37 CFR 3.41).....\$ 40.00 Enclosed Authorized to be charged to deposit account

8. Deposit account number:

12-0080

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Maria C. Laccotripe

Name of Person Signing

02/19/2002 TDIAZ1 00000149 09947199

Signature

January 9, 2002

Date

01 FC:501

40.00 OP

2Mail documents to be recorded with required cover sheet information to:
Director – U.S. Patent and Trademark Office, Box Assignm, Washington, D.C. 20231

ASSIGNMENT

I, Jeyaseelan Raju of Acton, MA, in consideration of One Dollar and other valuable consideration paid to me by

Millennium Pharmaceuticals, Inc.

a corporation of Delaware, having its principal place of business at 75 Sidney Street, Cambridge, MA 02139 the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

Millennium Pharmaceuticals, Inc.

its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in

NOVEL CARD PROTEIN AND NUCLEIC ACID MOLECULES AND USES THEREFOR

described in an application

 executed by us of even date herewith and about to be filed

X Serial No. 09/947,199, filed on September 5, 2001

in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And I agree, for myself and our executors and administrators, with said corporation and its successors and assigns but at its or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

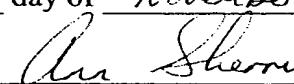
And I do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this 19th day of November, 2001.

By: X 
Jeyaseelan Raju

State of Massachusetts)
)ss
County of Middlesex)

Then personally appeared the above named Jeyaseelan Raju and acknowledged the foregoing instrument to be his/her free act and deed, before me, this 19th day of November, 2001.


Notary Public (ANN SHERRY)

My commission expires: 4/19/07